

ipd4300maimgsvdTES-10

Defense Information Infrastructure (DII)

Common Operating Environment (COE)

**Software Version Description (SVD)
for the
Imagery Application Program Interface (API) (MAIMG) Segment
of the
Tactical Environmental Support System Next Century
[TESS(NC)]
Meteorology and Oceanography (METOC) Database**

Document Version 4.3

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1 SCOPE

1.1 Identification

This Software Version Description (SVD) describes the Imagery Application Program Interface (API) (MAIMG) segment, Version 4.2 series, of the Tactical Environmental Support System Next Century [TESS(NC)] Meteorology and Oceanography (METOC) Database. The MAIMG segment provides APIs for the storage and retrieval of Imagery Products. This software is designed to run under the Defense Information Infrastructure (DII) Common Operating Environment (COE) release 3.1 on a Hewlett-Packard computer running HP-UX 10.20 or a personal computer running the Microsoft Windows NT 4.0 operating system with Service Pack 3.

1.2 System Overview

The APIs described in this document form a portion of the METOC Database component of the TESS(NC) Program (Navy Integrated Tactical Environmental Subsystem (NITES) Version I). On 29 October 1996, the Oceanographer of the Navy issued a TESS Program Policy statement in letter 3140 Serial 961/6U570953, modifying the Program by calling for five seamless software versions that are DII COE compliant, preferably to level 5.

The five versions are:

- NITES Version I The local data fusion center and principal METOC analysis and forecast system (TESS(NC))
- NITES Version II The subsystem on the Joint Maritime Command Information System (JMCIS) or Global Command and Control System (GCCS) (NITES/Joint METOC Segment (JMS))
- NITES Version III The unclassified aviation forecast, briefing, and display subsystem tailored to Naval METOC shore activities (currently satisfied by the Meteorological Integrated Data Display System (MIDDS))
- NITES Version IV The Portable subsystem composed of independent Personal Computers (PCs)/workstations and modules for forecaster, satellite, communications, and Integrated Command, Control, Communications, Computer, and Intelligence Surveillance Reconnaissance (IC4ISR) functions (currently the Interim Mobile Oceanographic Support System (IMOSS))
- NITES Version V Foreign Military Sales (currently satisfied by the Allied Environmental Support System (AESS))

NITES I acquires and assimilates various METOC data for use by US Navy and Marine Corps weather forecasters and tactical planners. NITES I provides these users with METOC data, products, and applications necessary to support the warfighter in tactical operations and decision making. NITES I provides METOC data and products to NITES I and II applications, as well as non-TESS(NC) systems requiring METOC data, in a heterogeneous, networked computing environment.

The TESS(NC) Concept of Operations and system architecture require that the METOC Database be distributed both in terms of application access to METOC data and products and in terms of physical location of the data repositories. The organizational structure of the database is influenced by these requirements, and the components of this distributed database are described below.

In accordance with DII COE database concepts, the METOC Database is composed of six DII COE-compliant *shared database* segments. Associated with each shared database segment is an API segment. The segments are arranged by data type as follows:

| <u>Data Type</u> | <u>Data Segment</u> | <u>API Segment</u> |
|--|----------------------------|---------------------------|
| Grid Fields | MDGRID | MAGRID |
| Latitude-Longitude-Time (LLT) Observations | MDLLT | MALLT |
| Textual Observations and Bulletins | MDTXT | MATXT |
| Remotely Sensed Data | MDREM | MAREM |
| Imagery | MDIMG | MAIMG |
| Climatology Data | MDCLIM | MACLIM |

A typical client-server installation is depicted in Figure 1-1 on the next page. This shows the shared database segments residing on a DII COE SHADE database server, with a NITES I or II client machine hosting the API segments. Communication between API segments and shared database segments is accomplished over the network using American National Standards Institute (ANSI)-standard Structured Query Language (SQL).

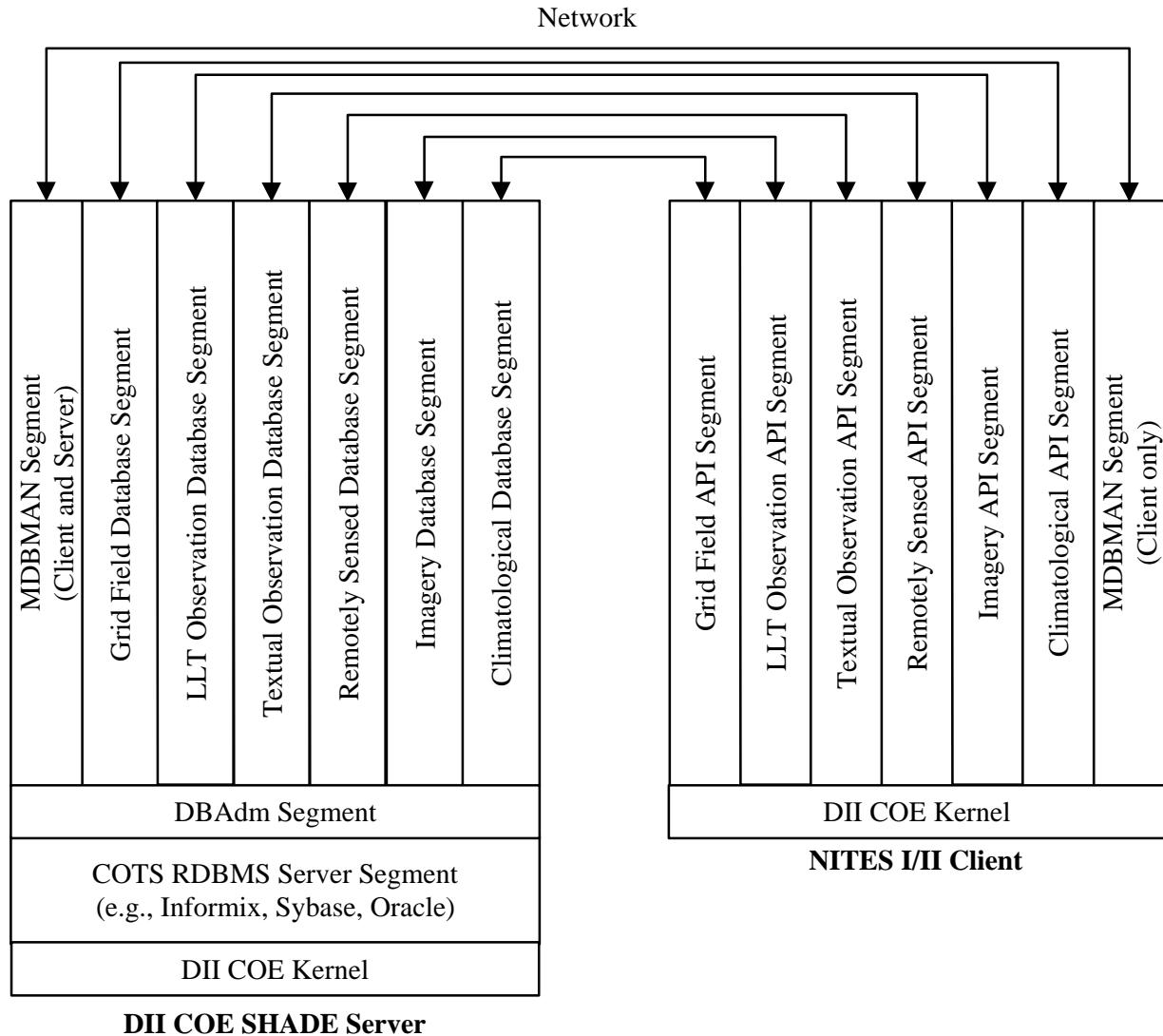


Figure 1-1. TESS(NC) METOC Database Conceptual Organization

The APIs in the MAIMG segment deal with imagery products. Imagery products can be associated with a specific geographic point/area, as well as time. A number of different image formats are supported; they are NITF, MIF, GIF, TIFF, BMP, JPEG, XWD, XBM, PBM, MPEG, and Other.

1.3 Product Information

1.3.1 Product Qualification

Test and Evaluation (T&E) of the software was performed at the Integrated Performance Decisions (IPD) facility in Middletown, RI, prior to delivery of the software.

1.3.2 Product Restrictions

IPD's intellectual property rights to deliverables defined in this document are covered by the copyright license under the clause in DFARS 252.227-7013 (Nov. 1995).

1.3.3 Product Dependencies

The MAIMG segment is hosted on the following hardware:

- Tactical Advanced Computer, TAC-3 (HP 750/755)/TAC-4 (HP J210)
- IBM-Compatible PC

The operating system requirements are:

- TAC-3/TAC-4: HP-UX 10.20
- PC: Windows NT 4.0 with Service Pack 3

The kernel requirements are:

- TAC-3/TAC-4: Kernel 3.0.1.0 with patches through P4
- PC: N/A

The following software must be properly installed prior to loading the MAIMG segment:

- Appropriate operating system (as described above),
- Appropriate DII COE Kernel (as described above),
- DII COE Informix Connect Segment (INFXCN), version 1.0.1.0,
- Imagery Database (MDIMG) segment installed on a DII COE database server.

2 REFERENCED DOCUMENTS

2.1 Government Documents

| | |
|--|---|
| Unnumbered 30 September 1997 | <i>Database Design Description for the Tactical Environmental Support System/Next Century [TESS(NC)] Meteorological and Oceanographic (METOC) Database</i> , Space and Naval Warfare Systems Command, Environmental Systems Program Office (SPAWAR PMW-185), Washington, DC |
| ipd4200maimgipTES-10 9 October 1998 | <i>Installation Procedures (IP) for the METOC Imagery API (MAIMG) Segment of the Tactical Environmental Support System Next Century [TESS(NC)] Meteorology and Oceanography (METOC) Database</i> |
| ipd4200maimgrmTES-10 9 October 1998 | <i>Application Program Interface Reference Manual (APIRM) for the METOC Imagery API (MAIMG) Segment of the Tactical Environmental Support System Next Century [TESS(NC)] Meteorology and Oceanography (METOC) Database</i> |
| ipd4200maimgpmTES-10 9 October 1998 | <i>Programming Manual (PM) for the METOC Imagery API (MAIMG) Segment of the Tactical Environmental Support System Next Century [TESS(NC)] Meteorology and Oceanography (METOC) Database</i> |

2.2 Non-Government Documents

None.

3 VERSION DESCRIPTION

3.1 Inventory of Materials Released

All physical media and associated documentation for the MAIMG segment are listed below.

- MAIMG segment v4.2.2 (HP-UX) Installation Tape (4-mm Digital Audio Tape (DAT) cartridge for TAC-3/TAC-4 hardware)
- MAIMG segment v4.2.2 (Windows NT) Installation diskette(s) (3.5" high-density diskette, IBM format for Windows NT 4.0 with Service Pack 3)
- MAIMG segment v4.2 APIRM, dated 9 October 1998
- MAIMG segment v4.2 PM, dated 9 October 1998
- MAIMG segment v4.2 series IP, dated 9 October 1998
- MAIMG segment v4.3 series SVD, dated 21 January 1999.

3.2 Inventory of Software Contents

A list of all executables and environment files delivered is contained in Appendix A of this document.

3.3 Changes Installed

A list of changes installed is contained in Appendix B of this document.

3.4 Waivers

There are no waivers associated with this software.

3.5 Adaptation Data

There are no unique-to-site data contained in the MAIMG 4.2 release.

3.6 Installation Instructions

The MAIMG segment v4.2 series IP referenced in Section 2 of this document provides comprehensive installation instructions for the MAIMG segment. The fully installed segment occupies approximately 10.65 MB of disk space on HP-UX machines and 10.0 MB on Windows NT machines. On TAC-3/TAC-4 machines, the software requires a minimum of 128 MB of RAM, with 192 MB recommended. On Windows NT machines, the software requires a minimum of 32 MB of RAM, with 128 MB recommended.

3.7 Possible Problems and Known Errors

Known problems and errors with MAIMG software are listed in Appendix C of this document.

4 NOTES

4.1 Glossary of Acronyms

| | |
|--------|---|
| AESS | Allied Environmental Support System |
| ANSI | American National Standards Institute |
| API | Application Program Interface |
| APIRM | API Reference Manual |
| COE | Common Operating Environment |
| DAT | Digital Audio Tape |
| DII | Defense Information Infrastructure |
| GCCS | Global Command and Control System |
| IC4ISR | Integrated Command, Control, Communications, Computer, and Intelligence Surveillance Reconnaissance |
| IMOSS | Interim Mobil Oceanographic Support System |
| INFXCN | Informix Connect Segment |
| IP | Installation Procedures |
| IPD | Integrated Performance Decisions |
| JMCIS | Joint Maritime Command Information System |
| JMS | Joint METOC Segment |
| LLT | Latitude-Longitude-Time |
| MAIMG | Imagery API Segment of the TESS(NC) METOC Database |
| MDIMG | Imagery Database Segment of the TESS(NC) METOC Database |
| METOC | Meteorology and Oceanography |
| MIDDS | Meteorological Integrated Data Display System |

| | |
|----------|--|
| NITES | Navy Integrated Tactical Environmental Subsystem |
| PC | Personal Computer |
| PM | Programming Manual |
| PTR | Program Trouble Report |
| SQL | Structured Query Language |
| SVD | Software Version Description |
| T&E | Test and Evaluation |
| TESS(NC) | Tactical Environmental Support System Next Century |

Appendix A - List of Executables and Environment Files

A.1 File Structure for HP-UX Delivery

```
/h/MAIMG
total 16
drwxrwxr-x 2 313 COE 24 Jan 7 17:45 Scripts
drwxrwxr-x 2 313 COE 24 Jan 7 17:45 data
drwxrwxr-x 2 313 COE 1024 Jan 8 18:40 include
drwxrwxr-x 3 313 COE 1024 Jan 8 18:40 man
drwxrwxr-x 2 313 COE 1024 Jan 8 18:40 lib
drwxrwxr-x 2 313 COE 1024 Jan 8 18:40 bin
drwxrwxr-x 3 313 COE 1024 Jan 8 18:40 Integ
drwxrwxr-x 2 313 COE 1024 Jan 8 19:01 SegDescrip

/h/MAIMG/Scripts
total 0

/h/MAIMG/data
total 0

/h/MAIMG/include
total 80
-r--r--r-- 1 313 COE 7865 Jan 8 17:51 MAIMGConst.h
-r--r--r-- 1 313 COE 8403 Jan 8 17:51 MAIMGAPI.h
-r--r--r-- 1 313 COE 1092 Jan 8 17:51 MAIMGDataDir.h
-r--r--r-- 1 313 COE 634 Jan 8 17:51 MAIMGDef.h
-r--r--r-- 1 313 COE 249 Jan 8 17:51 MAIMGExp.h
-r--r--r-- 1 313 COE 3411 Jan 8 17:51 MAIMGTableDefs.h
-r--r--r-- 1 313 COE 4616 Jan 8 17:51 MAIMGErr.h
-r--r--r-- 1 313 COE 7692 Jan 8 17:51 MAIMGProto.h
-r--r--r-- 1 313 COE 1422 Jan 8 17:51 MAIMGRet.h

/h/MAIMG/man
total 2
drwxrwxr-x 2 313 COE 1024 Jan 8 18:40 man3

/h/MAIMG/lib
total 2400
-r--r--r-- 1 313 COE 1219396 Jan 8 17:51 libMAIMGAPI.a

/h/MAIMG/bin
total 400
-r-xr-xr-x 1 313 COE 192798 Jan 8 17:51 libMAIMGAPI.sl

/h/MAIMG/Integ
total 2
drwxrwxrwx 3 313 COE 1024 Jan 8 18:41 TestSuite

/h/MAIMG/SegDescrip
total 16
-rw xr-xr-x 1 313 COE 358 Jan 8 17:51 PostInstall
-rw r--r-- 1 313 COE 493 Jan 8 17:51 SegName
-rw r--r-- 1 313 COE 183 Jan 8 17:51 VERSION
-rw r--r-- 1 313 COE 330 Jan 8 17:51 ReleaseNotes
-rw xr-xr-x 1 313 COE 167 Jan 8 17:51 DEINSTALL
-rw r--r-- 1 313 COE 298 Jan 8 18:35 SegInfo
-rw rw-rw- 1 root COE 123 Jan 8 18:35 Validated
-rw rw-rw- 1 root other 135 Jan 8 18:41 Installed
```

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```
/h/MAIMG/man/man3
-r--r--- 1 313 COE      2195 Jan  8 17:51 MAIMGIgest.3
-r--r--- 1 313 COE      1762 Jan  8 17:51 MAIMGConnect.3
-r--r--- 1 313 COE      1739 Jan  8 17:51 MAIMGDisconnect.3
-r--r--- 1 313 COE      2623 Jan  8 17:51 MAIMGRremoteConnect.3
-r--r--- 1 313 COE      2062 Jan  8 17:51 MAIMGSetConnection.3
-r--r--- 1 313 COE      2049 Jan  8 17:51 MAIMGRremoteDisconnect.3
-r--r--- 1 313 COE      3226 Jan  8 17:51 MAIMGCatalog.3
-r--r--- 1 313 COE      2322 Jan  8 17:51 MAIMGGetByID.3
-r--r--- 1 313 COE      2573 Jan  8 17:51 MAIMGUpdateByID.3
-r--r--- 1 313 COE      3304 Jan  8 17:51 MAIMGGetByQuery.3
-r--r--- 1 313 COE      2241 Jan  8 17:51 MAIMGDeleteByID.3
-r--r--- 1 313 COE      2928 Jan  8 17:51 MAIMGGetTypesInfo.3
-r--r--- 1 313 COE      1883 Jan  8 17:51 MAIMGFreeLL.3

/h/MAIMG/Integ/TestSuite
total 4712
-rwxrwxrwx 1 313 COE      131453 Jan  8 17:51 MAIMGtestIngest_d
-rwxrwxrwx 1 313 COE      131453 Jan  8 17:51 MAIMGtestIngest_l
-rwxrwxrwx 1 313 COE      115055 Jan  8 17:51 MAIMGtestDeleteImage_d
-rwxrwxrwx 1 313 COE      115055 Jan  8 17:51 MAIMGtestDeleteImage_l
-rwxrwxrwx 1 313 COE      123251 Jan  8 17:51 MAIMGtestGetByID_d
-rwxrwxrwx 1 313 COE      123251 Jan  8 17:51 MAIMGtestGetByID_l
-rwxrwxrwx 1 313 COE      139646 Jan  8 17:51 MAIMGtestGetByQuery_d
-rwxrwxrwx 1 313 COE      139646 Jan  8 17:51 MAIMGtestGetByQuery_l
-rwxrwxrwx 1 313 COE      53483 Jan  8 17:51 MAIMGtestUpdateImage_d
-rwxrwxrwx 1 313 COE      151953 Jan  8 17:51 MAIMGtestUpdateImage_l
-rwxrwxrwx 1 313 COE      127346 Jan  8 17:51 MAIMGtestGetCatalog_d
-rwxrwxrwx 1 313 COE      127346 Jan  8 17:51 MAIMGtestGetCatalog_l
-rwxrwxrwx 1 313 COE      94536 Jan  8 17:51 MAIMGtestGetTypesInfo_d
-rwxrwxrwx 1 313 COE      94536 Jan  8 17:51 MAIMGtestGetTypesInfo_l
-rwxrwxrwx 1 313 COE      131443 Jan  8 17:51 MAIMGtestBrowseAPI_d
-rwxrwxrwx 1 313 COE      131443 Jan  8 17:51 MAIMGtestBrowseAPI_l
-rwxrwxrwx 1 313 COE      3285 Jan  8 17:52 MAIMG_TEST.README
-rwxrwxrwx 1 313 COE      123246 Jan  8 17:52 MAIMGtestBrowse_d
-rwxrwxrwx 1 313 COE      123246 Jan  8 17:52 MAIMGtestBrowse_l
drwxrwxrwx 10 313 COE      1024 Jan  8 18:40 TESTDATA

/h/MAIMG/Integ/TestSuite/TESTDATA
total 20
drwxrwxrwx 2 313 COE      3072 Jan  8 18:40 INGEST
drwxrwxrwx 2 313 COE      1024 Jan  8 18:40 CATALOG
drwxrwxrwx 2 313 COE      1024 Jan  8 18:40 GETBYQY
drwxrwxrwx 2 313 COE      1024 Jan  8 18:40 GET_BY_ID
drwxrwxrwx 2 313 COE      1024 Jan  8 18:40 DELETE
drwxrwxrwx 2 313 COE      1024 Jan  8 18:40 UPDATE
drwxrwxrwx 2 313 COE      1024 Jan  8 18:40 GETTYPES
drwxrwxrwx 2 313 COE      1024 Jan  8 18:41 IMAGES

/h/MAIMG/Integ/TestSuite/TESTDATA/INGEST
total 192
-rwxrwxrwx 1 313 COE      310 Jan  8 17:51 p_002016_NOFILE
-rwxrwxrwx 1 313 COE      303 Jan  8 17:51 p_001000_NONE
-rwxrwxrwx 1 313 COE      316 Jan  8 17:51 p_002017
-rwxrwxrwx 1 313 COE      318 Jan  8 17:51 p_002019
-rwxrwxrwx 1 313 COE      319 Jan  8 17:51 p_002018
-rwxrwxrwx 1 313 COE      318 Jan  8 17:51 p_002020
-rwxrwxrwx 1 313 COE      318 Jan  8 17:51 p_002021
-rwxrwxrwx 1 313 COE      317 Jan  8 17:51 p_002022
-rwxrwxrwx 1 313 COE      317 Jan  8 17:51 p_002022_y2k_leap
```

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| | | | | | | | | |
|------------|---|-----|-----|-----|-----|---|-------|------------------------|
| -rwxrwxrwx | 1 | 313 | COE | 318 | Jan | 8 | 17:51 | p_002019_y2k_2036 |
| -rwxrwxrwx | 1 | 313 | COE | 317 | Jan | 8 | 17:51 | p_002023 |
| -rwxrwxrwx | 1 | 313 | COE | 363 | Jan | 8 | 17:51 | s_003002 |
| -rwxrwxrwx | 1 | 313 | COE | 359 | Jan | 8 | 17:51 | s_003001 |
| -rwxrwxrwx | 1 | 313 | COE | 364 | Jan | 8 | 17:51 | s_004002 |
| -rwxrwxrwx | 1 | 313 | COE | 359 | Jan | 8 | 17:51 | s_005001 |
| -rwxrwxrwx | 1 | 313 | COE | 363 | Jan | 8 | 17:51 | s_004001 |
| -rwxrwxrwx | 1 | 313 | COE | 367 | Jan | 8 | 17:51 | s_005002 |
| -rwxrwxrwx | 1 | 313 | COE | 363 | Jan | 8 | 17:51 | s_007003 |
| -rwxrwxrwx | 1 | 313 | COE | 363 | Jan | 8 | 17:51 | s_006003 |
| -rwxrwxrwx | 1 | 313 | COE | 363 | Jan | 8 | 17:51 | s_006003_y2k_2036 |
| -rwxrwxrwx | 1 | 313 | COE | 363 | Jan | 8 | 17:51 | s_008004 |
| -rwxrwxrwx | 1 | 313 | COE | 363 | Jan | 8 | 17:51 | s_009005 |
| -rwxrwxrwx | 1 | 313 | COE | 365 | Jan | 8 | 17:51 | s_010006 |
| -rwxrwxrwx | 1 | 313 | COE | 363 | Jan | 8 | 17:51 | s_009006_y2k |
| -rwxrwxrwx | 1 | 313 | COE | 368 | Jan | 8 | 17:51 | s_009007_world |
| -rwxrwxrwx | 1 | 313 | COE | 364 | Jan | 8 | 17:51 | s_009008_IntDatLine |
| -rwxrwxrwx | 1 | 313 | COE | 360 | Jan | 8 | 17:51 | s_010005_NOFILE |
| -rwxrwxrwx | 1 | 313 | COE | 365 | Jan | 8 | 17:51 | s_010007_y2k |
| -rwxrwxrwx | 1 | 313 | COE | 365 | Jan | 8 | 17:51 | s_010007 |
| -rwxrwxrwx | 1 | 313 | COE | 365 | Jan | 8 | 17:51 | s_010008 |
| -rwxrwxrwx | 1 | 313 | COE | 365 | Jan | 8 | 17:51 | s_011006_AOI |
| -rwxrwxrwx | 1 | 313 | COE | 382 | Jan | 8 | 17:51 | s_011005_equator |
| -rwxrwxrwx | 1 | 313 | COE | 364 | Jan | 8 | 17:51 | s_011008 |
| -rwxrwxrwx | 1 | 313 | COE | 364 | Jan | 8 | 17:51 | s_012005 |
| -rwxrwxrwx | 1 | 313 | COE | 364 | Jan | 8 | 17:51 | s_011007 |
| -rwxrwxrwx | 1 | 313 | COE | 364 | Jan | 8 | 17:51 | s_012005_chan0 |
| -rwxrwxrwx | 1 | 313 | COE | 360 | Jan | 8 | 17:51 | s_012007_y2k |
| -rwxrwxrwx | 1 | 313 | COE | 360 | Jan | 8 | 17:51 | s_012008 |
| -rwxrwxrwx | 1 | 313 | COE | 364 | Jan | 8 | 17:51 | s_012006 |
| -rwxrwxrwx | 1 | 313 | COE | 446 | Jan | 8 | 17:51 | s_013005_10Calib |
| -rwxrwxrwx | 1 | 313 | COE | 363 | Jan | 8 | 17:51 | s_013008 |
| -rwxrwxrwx | 1 | 313 | COE | 367 | Jan | 8 | 17:51 | s_013006 |
| -rwxrwxrwx | 1 | 313 | COE | 359 | Jan | 8 | 17:51 | s_013007 |
| -rwxrwxrwx | 1 | 313 | COE | 363 | Jan | 8 | 17:51 | s_014006 |
| -rwxrwxrwx | 1 | 313 | COE | 363 | Jan | 8 | 17:51 | s_014007 |
| -rwxrwxrwx | 1 | 313 | COE | 363 | Jan | 8 | 17:51 | s_014008_y2k |
| -rwxrwxrwx | 1 | 313 | COE | 364 | Jan | 8 | 17:51 | s_015009 |
| -rwxrwxrwx | 1 | 313 | COE | 367 | Jan | 8 | 17:51 | s_014005 |
| -rwxrwxrwx | 1 | 313 | COE | 358 | Jan | 8 | 17:51 | s_016009_NOFILE |
| -rwxrwxrwx | 1 | 313 | COE | 362 | Jan | 8 | 17:51 | s_017009 |
| -rwxrwxrwx | 1 | 313 | COE | 357 | Jan | 8 | 17:51 | s_019009 |
| -rwxrwxrwx | 1 | 313 | COE | 358 | Jan | 8 | 17:51 | s_020010_y2k |
| -rwxrwxrwx | 1 | 313 | COE | 361 | Jan | 8 | 17:51 | s_018009 |
| -rwxrwxrwx | 1 | 313 | COE | 362 | Jan | 8 | 17:51 | s_021010_y2k |
| -rwxrwxrwx | 1 | 313 | COE | 362 | Jan | 8 | 17:51 | s_024011 |
| -rwxrwxrwx | 1 | 313 | COE | 362 | Jan | 8 | 17:51 | s_022010 |
| -rwxrwxrwx | 1 | 313 | COE | 366 | Jan | 8 | 17:51 | s_023010 |
| -rwxrwxrwx | 1 | 313 | COE | 362 | Jan | 8 | 17:51 | s_024012 |
| -rwxrwxrwx | 1 | 313 | COE | 362 | Jan | 8 | 17:51 | s_024012_y2k |
| -rwxrwxrwx | 1 | 313 | COE | 362 | Jan | 8 | 17:51 | s_024011_chan0 |
| -rwxrwxrwx | 1 | 313 | COE | 357 | Jan | 8 | 17:51 | s_024013 |
| -rwxrwxrwx | 1 | 313 | COE | 358 | Jan | 8 | 17:51 | s_025012 |
| -rwxrwxrwx | 1 | 313 | COE | 358 | Jan | 8 | 17:51 | s_024014 |
| -rwxrwxrwx | 1 | 313 | COE | 362 | Jan | 8 | 17:51 | s_025011 |
| -rwxrwxrwx | 1 | 313 | COE | 362 | Jan | 8 | 17:51 | s_025014 |
| -rwxrwxrwx | 1 | 313 | COE | 362 | Jan | 8 | 17:51 | s_026011 |
| -rwxrwxrwx | 1 | 313 | COE | 362 | Jan | 8 | 17:51 | s_025013 |
| -rwxrwxrwx | 1 | 313 | COE | 362 | Jan | 8 | 17:51 | s_026012_y2k |
| -rwxrwxrwx | 1 | 313 | COE | 368 | Jan | 8 | 17:51 | s_027011_283QualityInd |
| -rwxrwxrwx | 1 | 313 | COE | 366 | Jan | 8 | 17:51 | s_026013 |

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| | | | | | | | | |
|------------|---|-----|-----|-----|-----|---|-------|-------------------|
| -rwxrwxrwx | 1 | 313 | COE | 356 | Jan | 8 | 17:51 | s_026014_NOFILE |
| -rwxrwxrwx | 1 | 313 | COE | 342 | Jan | 8 | 17:51 | s_027013_AOI |
| -rwxrwxrwx | 1 | 313 | COE | 366 | Jan | 8 | 17:51 | s_027012 |
| -rwxrwxrwx | 1 | 313 | COE | 363 | Jan | 8 | 17:51 | s_027014 |
| -rwxrwxrwx | 1 | 313 | COE | 363 | Jan | 8 | 17:51 | s_028014_y2k |
| -rwxrwxrwx | 1 | 313 | COE | 358 | Jan | 8 | 17:51 | s_027015 |
| -rwxrwxrwx | 1 | 313 | COE | 362 | Jan | 8 | 17:51 | s_028011 |
| -rwxrwxrwx | 1 | 313 | COE | 362 | Jan | 8 | 17:51 | s_028012 |
| -rwxrwxrwx | 1 | 313 | COE | 363 | Jan | 8 | 17:51 | s_028013_y2k |
| -rwxrwxrwx | 1 | 313 | COE | 366 | Jan | 8 | 17:51 | s_029011 |
| -rwxrwxrwx | 1 | 313 | COE | 362 | Jan | 8 | 17:51 | s_029012 |
| -rwxrwxrwx | 1 | 313 | COE | 357 | Jan | 8 | 17:51 | s_028015_NOFILE |
| -rwxrwxrwx | 1 | 313 | COE | 362 | Jan | 8 | 17:51 | s_029013 |
| -rwxrwxrwx | 1 | 313 | COE | 366 | Jan | 8 | 17:51 | s_029015 |
| -rwxrwxrwx | 1 | 313 | COE | 362 | Jan | 8 | 17:51 | s_029013_y2k_leap |
| -rwxrwxrwx | 1 | 313 | COE | 366 | Jan | 8 | 17:51 | s_029014 |
| -rwxrwxrwx | 1 | 313 | COE | 367 | Jan | 8 | 17:51 | s_030011 |
| -rwxrwxrwx | 1 | 313 | COE | 366 | Jan | 8 | 17:51 | s_030012 |
| -rwxrwxrwx | 1 | 313 | COE | 366 | Jan | 8 | 17:51 | s_031012 |
| -rwxrwxrwx | 1 | 313 | COE | 370 | Jan | 8 | 17:51 | s_030013 |
| -rwxrwxrwx | 1 | 313 | COE | 361 | Jan | 8 | 17:51 | s_030014_NOFILE |
| -rwxrwxrwx | 1 | 313 | COE | 367 | Jan | 8 | 17:51 | s_030015 |
| -rwxrwxrwx | 1 | 313 | COE | 367 | Jan | 8 | 17:51 | s_031011 |
| -rwxrwxrwx | 1 | 313 | COE | 370 | Jan | 8 | 17:52 | s_031013 |
| -rwxrwxrwx | 1 | 313 | COE | 361 | Jan | 8 | 17:52 | s_031014_NOFILE |
| -rwxrwxrwx | 1 | 313 | COE | 367 | Jan | 8 | 17:52 | s_031015 |

/h/MAIMG/Integ/TestSuite/TESTDATA/CATALOG

total 26

| | | | | | | | | |
|------------|---|-----|-----|-----|-----|---|-------|---------------------------|
| -rwxrwxrwx | 1 | 313 | COE | 301 | Jan | 8 | 17:52 | C_s000000_ChAndOrgSite |
| -rwxrwxrwx | 1 | 313 | COE | 316 | Jan | 8 | 17:52 | C_s000000_ReceiptTime |
| -rwxrwxrwx | 1 | 313 | COE | 298 | Jan | 8 | 17:52 | C_s000000_NOAOI |
| -rwxrwxrwx | 1 | 313 | COE | 298 | Jan | 8 | 17:52 | C_s000000_WildAll |
| -rwxrwxrwx | 1 | 313 | COE | 304 | Jan | 8 | 17:52 | C_s000000_TitleAndDesc |
| -rwxrwxrwx | 1 | 313 | COE | 298 | Jan | 8 | 17:52 | C_s000000_chano |
| -rwxrwxrwx | 1 | 313 | COE | 351 | Jan | 8 | 17:52 | C_s_009005 |
| -rwxrwxrwx | 1 | 313 | COE | 316 | Jan | 8 | 17:52 | C_x_s000000_ReceiptTime |
| -rwxrwxrwx | 1 | 313 | COE | 299 | Jan | 8 | 17:52 | C_s_010006_TYPE |
| -rwxrwxrwx | 1 | 313 | COE | 313 | Jan | 8 | 17:52 | C_s_011007_SomeData |
| -rwxrwxrwx | 1 | 313 | COE | 295 | Jan | 8 | 17:52 | C_s000000_AOINameSubGrid |
| -rwxrwxrwx | 1 | 313 | COE | 303 | Jan | 8 | 17:52 | C_s000000_AOIName |
| -rwxrwxrwx | 1 | 313 | COE | 300 | Jan | 8 | 17:52 | C_x_s024028_BadTypeAndSub |

/h/MAIMG/Integ/TestSuite/TESTDATA/GETBYQY

total 24

| | | | | | | | | |
|------------|---|-----|-----|-----|-----|---|-------|--------------------------|
| -rwxrwxrwx | 1 | 313 | COE | 301 | Jan | 8 | 17:52 | Q_s000000_ChAndOrgSite |
| -rwxrwxrwx | 1 | 313 | COE | 316 | Jan | 8 | 17:52 | Q_s000000_ReceiptTime |
| -rwxrwxrwx | 1 | 313 | COE | 298 | Jan | 8 | 17:52 | Q_s000000_NOAOI |
| -rwxrwxrwx | 1 | 313 | COE | 298 | Jan | 8 | 17:52 | Q_s000000_WildAll |
| -rwxrwxrwx | 1 | 313 | COE | 351 | Jan | 8 | 17:52 | Q_s_009005_ALLDATA |
| -rwxrwxrwx | 1 | 313 | COE | 298 | Jan | 8 | 17:52 | Q_s000000_chano |
| -rwxrwxrwx | 1 | 313 | COE | 302 | Jan | 8 | 17:52 | Q_s000000_NLat |
| -rwxrwxrwx | 1 | 313 | COE | 300 | Jan | 8 | 17:52 | Q_s_000000_AOIName |
| -rwxrwxrwx | 1 | 313 | COE | 316 | Jan | 8 | 17:52 | Q_x_s000000_BaseTime |
| -rwxrwxrwx | 1 | 313 | COE | 299 | Jan | 8 | 17:52 | Q_x_s000000_FormatType |
| -rwxrwxrwx | 1 | 313 | COE | 292 | Jan | 8 | 17:52 | Q_s000000_AOINameSubGrid |
| -rwxrwxrwx | 1 | 313 | COE | 300 | Jan | 8 | 17:52 | Q_x_s000000_OrgSite |

/h/MAIMG/Integ/TestSuite/TESTDATA/GET_BY_ID

total 24

| | | | | | | | | |
|------------|---|-----|-----|----|-----|---|-------|------------|
| -rwxrwxrwx | 1 | 313 | COE | 48 | Jan | 8 | 17:52 | ID_s012006 |
|------------|---|-----|-----|----|-----|---|-------|------------|

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| | | | | | | | | |
|------------|---|-----|-----|----|-----|---|-------|--------------------------|
| -rwxrwxrwx | 1 | 313 | COE | 48 | Jan | 8 | 17:52 | ID_s011007 |
| -rwxrwxrwx | 1 | 313 | COE | 48 | Jan | 8 | 17:52 | ID_s018009 |
| -rwxrwxrwx | 1 | 313 | COE | 49 | Jan | 8 | 17:52 | ID_p_002023 |
| -rwxrwxrwx | 1 | 313 | COE | 49 | Jan | 8 | 17:52 | ID_s_010007 |
| -rwxrwxrwx | 1 | 313 | COE | 49 | Jan | 8 | 17:52 | ID_s_009005 |
| -rwxrwxrwx | 1 | 313 | COE | 49 | Jan | 8 | 17:52 | ID_s_013006 |
| -rwxrwxrwx | 1 | 313 | COE | 49 | Jan | 8 | 17:52 | ID_x_s245637 |
| -rwxrwxrwx | 1 | 313 | COE | 49 | Jan | 8 | 17:52 | ID_s_019009 |
| -rwxrwxrwx | 1 | 313 | COE | 49 | Jan | 8 | 17:52 | ID_s_023010 |
| -rwxrwxrwx | 1 | 313 | COE | 49 | Jan | 8 | 17:52 | ID_x_s013006_5RecordID |
| -rwxrwxrwx | 1 | 313 | COE | 48 | Jan | 8 | 17:52 | ID_x_s019011_DupFileName |

/h/MAIMG/Integ/TestSuite/TESTDATA/DELETE

total 26

| | | | | | | | | |
|------------|---|-----|-----|----|-----|---|-------|-----------------------|
| -rwxrwxrwx | 1 | 313 | COE | 29 | Jan | 8 | 17:52 | D_s_009008 |
| -rwxrwxrwx | 1 | 313 | COE | 29 | Jan | 8 | 17:52 | D_s012007 |
| -rwxrwxrwx | 1 | 313 | COE | 29 | Jan | 8 | 17:52 | D_s_010005 |
| -rwxrwxrwx | 1 | 313 | COE | 29 | Jan | 8 | 17:52 | D_s_018009 |
| -rwxrwxrwx | 1 | 313 | COE | 29 | Jan | 8 | 17:52 | D_s_011006 |
| -rwxrwxrwx | 1 | 313 | COE | 29 | Jan | 8 | 17:52 | D_s_030014 |
| -rwxrwxrwx | 1 | 313 | COE | 29 | Jan | 8 | 17:52 | D_s_028013 |
| -rwxrwxrwx | 1 | 313 | COE | 29 | Jan | 8 | 17:52 | D_p_002020 |
| -rwxrwxrwx | 1 | 313 | COE | 29 | Jan | 8 | 17:52 | D_x_s008004_4RecordID |
| -rwxrwxrwx | 1 | 313 | COE | 31 | Jan | 8 | 17:52 | D_x_s014008_ID |
| -rwxrwxrwx | 1 | 313 | COE | 29 | Jan | 8 | 17:52 | D_x_s299999 |
| -rwxrwxrwx | 1 | 313 | COE | 29 | Jan | 8 | 17:52 | D_s_015009 |
| -rwxrwxrwx | 1 | 313 | COE | 29 | Jan | 8 | 17:52 | D_s_031014 |

/h/MAIMG/Integ/TestSuite/TESTDATA/UPDATE

total 18

| | | | | | | | | |
|------------|---|-----|-----|-----|-----|---|-------|-------------------------|
| -rwxrwxrwx | 1 | 313 | COE | 391 | Jan | 8 | 17:52 | U_x_s_010008_LatLon |
| -rwxrwxrwx | 1 | 313 | COE | 395 | Jan | 8 | 17:52 | U_x_s_029012_ChainID |
| -rwxrwxrwx | 1 | 313 | COE | 335 | Jan | 8 | 17:52 | U_p_002016_TitleAndDesc |
| -rwxrwxrwx | 1 | 313 | COE | 393 | Jan | 8 | 17:52 | U_x_s015009_Record |
| -rwxrwxrwx | 1 | 313 | COE | 327 | Jan | 8 | 17:52 | U_p_002023_RecepAndSite |
| -rwxrwxrwx | 1 | 313 | COE | 393 | Jan | 8 | 17:52 | U_s_024014_LATLON |
| -rwxrwxrwx | 1 | 313 | COE | 390 | Jan | 8 | 17:52 | U_s_006003_ReceiptM |
| -rwxrwxrwx | 1 | 313 | COE | 506 | Jan | 8 | 17:52 | U_s_013006_Calib |
| -rwxrwxrwx | 1 | 313 | COE | 394 | Jan | 8 | 17:52 | U_s_028013_ChainAndProj |

/h/MAIMG/Integ/TestSuite/TESTDATA/GETTYPES

total 20

| | | | | | | | | |
|------------|---|-----|-----|----|-----|---|-------|------------------------|
| -rwxrwxrwx | 1 | 313 | COE | 23 | Jan | 8 | 17:52 | T_s_024011 |
| -rwxrwxrwx | 1 | 313 | COE | 21 | Jan | 8 | 17:52 | T_s_009008 |
| -rwxrwxrwx | 1 | 313 | COE | 22 | Jan | 8 | 17:52 | T_s_014008 |
| -rwxrwxrwx | 1 | 313 | COE | 23 | Jan | 8 | 17:52 | T_s_027014 |
| -rwxrwxrwx | 1 | 313 | COE | 23 | Jan | 8 | 17:52 | T_s_025013 |
| -rwxrwxrwx | 1 | 313 | COE | 23 | Jan | 8 | 17:52 | T_s_029015 |
| -rwxrwxrwx | 1 | 313 | COE | 21 | Jan | 8 | 17:52 | T_s_000000_wildall |
| -rwxrwxrwx | 1 | 313 | COE | 22 | Jan | 8 | 17:52 | T_p_002020 |
| -rwxrwxrwx | 1 | 313 | COE | 22 | Jan | 8 | 17:52 | T_p_002023 |
| -rwxrwxrwx | 1 | 313 | COE | 21 | Jan | 8 | 17:52 | T_s_000000_subtypewild |

/h/MAIMG/Integ/TestSuite/TESTDATA/IMAGES

total 13820

| | | | | | | | | |
|------------|---|-----|-----|---------|-----|---|-------|---------------|
| -rwxrwxrwx | 1 | 313 | COE | 311744 | Jan | 8 | 17:52 | 5jan1200.gif |
| -rwxrwxrwx | 1 | 313 | COE | 311787 | Jan | 8 | 17:52 | 5jan1200.mif |
| -rwxrwxrwx | 1 | 313 | COE | 311787 | Jan | 8 | 17:52 | 5jan1200.nitf |
| -rwxrwxrwx | 1 | 313 | COE | 1327161 | Jan | 8 | 17:52 | 5jan1200.pbm |
| -rwxrwxrwx | 1 | 313 | COE | 316274 | Jan | 8 | 17:52 | 5jan1200.tif |
| -rwxrwxrwx | 1 | 313 | COE | 345770 | Jan | 8 | 17:52 | 5jan1200.xbm |

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| | | | | | |
|------------|-------|-----|---------|-------------|------------------|
| -rwxrwxrwx | 1 313 | COE | 445579 | Jan 8 17:52 | 5jan1200.xwd |
| -rwxrwxrwx | 1 313 | COE | 8310 | Jan 8 17:52 | BlueMonday16.bmp |
| -rwxrwxrwx | 1 313 | COE | 1050283 | Jan 8 17:52 | med2.xwd |
| -rwxrwxrwx | 1 313 | COE | 328106 | Jan 8 17:52 | metosat_euro.gif |
| -rwxrwxrwx | 1 313 | COE | 1048971 | Jan 8 17:52 | med1.mif |
| -rwxrwxrwx | 1 313 | COE | 1048965 | Jan 8 17:52 | med2.mif |
| -rwxrwxrwx | 1 313 | COE | 53373 | Jan 8 17:52 | n949wp-2.jpg |

A.2 File Structure for Windows NT Delivery

```
\h\MAIMG
total 18
drwxr-xr-x  6 0  everyone          0  Jan  08 13:47 bin
drwxr-xr-x  5 0  everyone          0  Jan  08 13:47 integ
drwxr-xr-x 10 0  everyone          0  Jan  08 13:47 SegDescrip
drwxr-xr-x  5 0  everyone          0  Jan  08 13:47 lib
drwxr-xr-x 13 0  everyone          0  Jan  08 13:47 include
drwxr-xr-x  5 0  everyone          0  Jan  08 13:47 man
-rw-r--r--  1 0  everyone  36720  Jan  08 13:53 Uninst.isu

\h\MAIMG\bin
total 80
-rw-r--r--  1 0  everyone  43504  Jan  08 12:55 MAIMGAPI.lib
-rw-r--r--  1 0  everyone 118272  Jan  08 12:55 MAIMGAPI.dll

\h\MAIMG\integ
total 0
drwxr-xr-x 46 0  everyone          0  Jan  08 13:47 testsuite

\h\MAIMG\SegDescrip
total 6
-rw-r--r--  1 0  everyone   493  May 11  1998 SegName.txt
-rw-r--r--  1 0  everyone   299  May 13  1998 SegInfo.txt
-rwxr-xr-x  1 0  everyone   295  May 13  1998 PostInstall.bat
-rwxr-xr-x  1 0  everyone   188  May 13  1998 DEINSTALL.bat
-rw-r--r--  1 0  everyone   330  Jan  07  08:52 ReleaseNotes.txt
-rw-r--r--  1 0  everyone   183  Jan  07  09:37 VERSION.txt

\h\MAIMG\lib
total 102
-rw-r--r--  1 0  everyone 208058  Jan  08 12:56 MAIMGAPI.lib

\h\MAIMG\include
total 22
-rw-r--r--  1 0  everyone   249  Jan  27  1998 MAIMGExp.h
-rw-r--r--  1 0  everyone 1422  Mar  02  1998 MAIMGRet.h
-rw-r--r--  1 0  everyone 1092  May 11  1998 MAIMGDataDir.h
-rw-r--r--  1 0  everyone   634  May 27  1998 MAIMGDef.h
-rw-r--r--  1 0  everyone 3411  Sep 25 10:18 MAIMGTableDefs.h
-rw-r--r--  1 0  everyone 8403  Sep 25 10:18 MAIMGAPI.h
-rw-r--r--  1 0  everyone 4616  Jan  06 14:32 MAIMGErr.h
-rw-r--r--  1 0  everyone 7865  Jan  07 09:38 MAIMGConst.h
-rw-r--r--  1 0  everyone 7692  Jan  07 09:38 MAIMGProto.h

\h\MAIMG\man
total 0
drwxr-xr-x 17 0  everyone          0  Jan  08 13:47 man3

\h\MAIMG\integ\testsuite
-rw-r--r--  1 0  everyone   3285  May 29  1998 MAIMG_TEST.README
-rwxr-xr-x  1 0  everyone  65024  Jan  08 12:56 MAIMGtestIngest_d.exe
-rwxr-xr-x  1 0  everyone 299196  Jan  08 12:57 MAIMGtestIngest_l.exe
-rwxr-xr-x  1 0  everyone  68872  Jan  08 12:57 MAIMGtestGetCatalog_d.exe
-rwxr-xr-x  1 0  everyone 290260  Jan  08 12:57 MAIMGtestGetCatalog_l.exe
-rwxr-xr-x  1 0  everyone  63640  Jan  08 12:58 MAIMGtestUpdate_d.exe
-rwxr-xr-x  1 0  everyone 310796  Jan  08 12:58 MAIMGtestUpdate_l.exe
-rwxr-xr-x  1 0  everyone  56360  Jan  08 12:58 MAIMGtestGetByID_d.exe
```

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| | | | | | | |
|------------|------|----------|--------|--------|-------|-----------------------------|
| -rwxr-xr-x | 1 0 | everyone | 286608 | Jan 08 | 12:58 | MAIMGtestGetByID_l.exe |
| -rwxr-xr-x | 1 0 | everyone | 64032 | Jan 08 | 12:59 | MAIMGtestBrowseAPI_d.exe |
| -rwxr-xr-x | 1 0 | everyone | 290920 | Jan 08 | 12:59 | MAIMGtestBrowseAPI_l.exe |
| -rwxr-xr-x | 1 0 | everyone | 71756 | Jan 08 | 12:59 | MAIMGtestGetByQuery_d.exe |
| -rwxr-xr-x | 1 0 | everyone | 303316 | Jan 08 | 12:59 | MAIMGtestGetByQuery_l.exe |
| -rwxr-xr-x | 1 0 | everyone | 51700 | Jan 08 | 12:59 | MAIMGtestDelete_d.exe |
| -rwxr-xr-x | 1 0 | everyone | 273972 | Jan 08 | 13:00 | MAIMGtestDelete_l.exe |
| -rwxr-xr-x | 1 0 | everyone | 57640 | Jan 08 | 13:00 | MAIMGtestGetTypesInfo_d.exe |
| -rwxr-xr-x | 1 0 | everyone | 253836 | Jan 08 | 13:00 | MAIMGtestGetTypesInfo_l.exe |
| -rwxr-xr-x | 1 0 | everyone | 56424 | Jan 08 | 13:00 | MAIMGtestBrowse_d.exe |
| -rwxr-xr-x | 1 0 | everyone | 279216 | Jan 08 | 13:01 | MAIMGtestBrowse_l.exe |
| drwxr-xr-x | 12 0 | everyone | 0 | Jan 08 | 13:49 | TestData |

\h\MAIMG\integ\testsuite\TESTDATA

total 0

| | | | | | | |
|------------|------|----------|---|--------|-------|----------|
| drwxr-xr-x | 16 0 | everyone | 0 | Jan 08 | 13:49 | GetByID |
| drwxr-xr-x | 17 0 | everyone | 0 | Jan 08 | 13:49 | Catalog |
| drwxr-xr-x | 16 0 | everyone | 0 | Jan 08 | 13:49 | Delete |
| drwxr-xr-x | 16 0 | everyone | 0 | Jan 08 | 13:49 | GetByQy |
| drwxr-xr-x | 11 0 | everyone | 0 | Jan 08 | 13:49 | Update |
| drwxr-xr-x | 17 0 | everyone | 0 | Jan 08 | 13:49 | Images |
| drwxr-xr-x | 14 0 | everyone | 0 | Jan 08 | 13:53 | GetTypes |
| drwxr-xr-x | 98 0 | everyone | 0 | Jan 08 | 13:53 | Ingest |

\h\MAIMG\integ\testsuite\TESTDATA\GETBYID

total 12

| | | | | | | |
|------------|-----|----------|----|--------|-------|--------------------------|
| -rw-r--r-- | 1 0 | everyone | 49 | May 22 | 1998 | ID_x_s245637 |
| -rw-r--r-- | 1 0 | everyone | 48 | May 22 | 1998 | ID_x_s019011_DupFileName |
| -rw-r--r-- | 1 0 | everyone | 48 | May 22 | 1998 | ID_s018009 |
| -rw-r--r-- | 1 0 | everyone | 48 | May 22 | 1998 | ID_s012006 |
| -rw-r--r-- | 1 0 | everyone | 48 | May 27 | 1998 | ID_s011007 |
| -rw-r--r-- | 1 0 | everyone | 49 | Jul 02 | 1998 | ID_x_s013006_5RecordID |
| -rw-r--r-- | 1 0 | everyone | 49 | Jul 02 | 1998 | ID_s_019009 |
| -rw-r--r-- | 1 0 | everyone | 49 | Jul 02 | 1998 | ID_s_023010 |
| -rw-r--r-- | 1 0 | everyone | 49 | Jul 03 | 1998 | ID_p_002023 |
| -rw-r--r-- | 1 0 | everyone | 49 | Oct 30 | 15:04 | ID_s_009005 |
| -rw-r--r-- | 1 0 | everyone | 49 | Oct 30 | 15:04 | ID_s_013006 |
| -rw-r--r-- | 1 0 | everyone | 49 | Oct 30 | 15:04 | ID_s_010007 |

\h\MAIMG\integ\testsuite\TESTDATA\CATALOG

total 13

| | | | | | | |
|------------|-----|----------|-----|--------|-------|---------------------------|
| -rw-r--r-- | 1 0 | everyone | 303 | Sep 25 | 13:56 | C_s000000_AOIName |
| -rw-r--r-- | 1 0 | everyone | 300 | Sep 25 | 13:58 | C_x_s024028_BadTypeAndSub |
| -rw-r--r-- | 1 0 | everyone | 316 | Sep 25 | 13:58 | C_x_s000000_ReceiptTime |
| -rw-r--r-- | 1 0 | everyone | 299 | Sep 25 | 13:58 | C_s_010006_TYPE |
| -rw-r--r-- | 1 0 | everyone | 313 | Sep 25 | 13:58 | C_s_011007_SomeData |
| -rw-r--r-- | 1 0 | everyone | 298 | Sep 25 | 13:58 | C_s000000_WildAll |
| -rw-r--r-- | 1 0 | everyone | 304 | Sep 25 | 13:58 | C_s000000_TitleAndDesc |
| -rw-r--r-- | 1 0 | everyone | 351 | Sep 25 | 13:58 | C_s_009005 |
| -rw-r--r-- | 1 0 | everyone | 301 | Sep 25 | 13:58 | C_s000000_ChAndOrgSite |
| -rw-r--r-- | 1 0 | everyone | 316 | Sep 25 | 13:58 | C_s000000_ReceiptTime |
| -rw-r--r-- | 1 0 | everyone | 298 | Sep 25 | 13:58 | C_s000000_NOAOI |
| -rw-r--r-- | 1 0 | everyone | 295 | Oct 05 | 18:19 | C_s000000_AOINameSubGrid |
| -rw-r--r-- | 1 0 | everyone | 298 | Jan 07 | 09:43 | C_s000000_chano |

\h\MAIMG\integ\testsuite\TESTDATA\DELETE

total 12

| | | | | | | |
|------------|-----|----------|----|--------|------|----------------|
| -rw-r--r-- | 1 0 | everyone | 29 | May 22 | 1998 | D_x_s299999 |
| -rw-r--r-- | 1 0 | everyone | 29 | May 28 | 1998 | D_s012007 |
| -rw-r--r-- | 1 0 | everyone | 29 | Jul 02 | 1998 | D_s_031014 |
| -rw-r--r-- | 1 0 | everyone | 31 | Jul 03 | 1998 | D_x_s014008_ID |

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| | | | | | | | |
|------------|---|---|----------|----|--------|-------|-----------------------|
| -rw-r--r-- | 1 | 0 | everyone | 29 | Jul 03 | 1998 | D_x_s008004_4RecordID |
| -rw-r--r-- | 1 | 0 | everyone | 29 | Jul 03 | 1998 | D_s_009008 |
| -rw-r--r-- | 1 | 0 | everyone | 29 | Oct 30 | 15:04 | D_s_010005 |
| -rw-r--r-- | 1 | 0 | everyone | 29 | Oct 30 | 15:04 | D_s_015009 |
| -rw-r--r-- | 1 | 0 | everyone | 29 | Oct 30 | 15:04 | D_s_011006 |
| -rw-r--r-- | 1 | 0 | everyone | 29 | Oct 30 | 15:04 | D_s_028013 |
| -rw-r--r-- | 1 | 0 | everyone | 29 | Oct 30 | 15:04 | D_s_030014 |
| -rw-r--r-- | 1 | 0 | everyone | 29 | Oct 30 | 15:04 | D_s_018009 |

\h\MAIMG\integ\testsuite\TESTDATA\GETBYQY

total 12

| | | | | | | | |
|------------|---|---|----------|-----|--------|-------|--------------------------|
| -rw-r--r-- | 1 | 0 | everyone | 300 | Sep 25 | 13:49 | Q_s_000000_AOIName |
| -rw-r--r-- | 1 | 0 | everyone | 300 | Sep 25 | 13:50 | Q_x_s000000_OrgSite |
| -rw-r--r-- | 1 | 0 | everyone | 316 | Sep 25 | 13:50 | Q_x_s000000_BaseTime |
| -rw-r--r-- | 1 | 0 | everyone | 299 | Sep 25 | 13:50 | Q_x_s000000_FormatType |
| -rw-r--r-- | 1 | 0 | everyone | 351 | Sep 25 | 13:50 | Q_s_009005_ALLDATA |
| -rw-r--r-- | 1 | 0 | everyone | 298 | Sep 25 | 13:50 | Q_s000000_WildAll |
| -rw-r--r-- | 1 | 0 | everyone | 316 | Sep 25 | 13:50 | Q_s000000_ReceiptTime |
| -rw-r--r-- | 1 | 0 | everyone | 302 | Sep 25 | 13:50 | Q_s000000_NLat |
| -rw-r--r-- | 1 | 0 | everyone | 298 | Sep 25 | 13:50 | Q_s000000_NOAOI |
| -rw-r--r-- | 1 | 0 | everyone | 301 | Sep 25 | 13:50 | Q_s000000_ChAndOrgSite |
| -rw-r--r-- | 1 | 0 | everyone | 292 | Oct 05 | 18:19 | Q_s000000_AOINameSubGrid |
| -rw-r--r-- | 1 | 0 | everyone | 298 | Jan 07 | 09:43 | Q_s000000_chano |

\h\MAIMG\integ\testsuite\TESTDATA\UPDATE

total 7

| | | | | | | | |
|------------|---|---|----------|-----|--------|-------|------------------------|
| -rw-r--r-- | 1 | 0 | everyone | 395 | Sep 25 | 14:07 | U_x_s_029012_ChanID |
| -rw-r--r-- | 1 | 0 | everyone | 391 | Sep 25 | 14:07 | U_x_s_010008_LatLon |
| -rw-r--r-- | 1 | 0 | everyone | 393 | Sep 25 | 14:07 | U_x_s015009_Record |
| -rw-r--r-- | 1 | 0 | everyone | 394 | Sep 25 | 14:07 | U_s_028013_ChanAndProj |
| -rw-r--r-- | 1 | 0 | everyone | 393 | Sep 25 | 14:07 | U_s_024014_LATLON |
| -rw-r--r-- | 1 | 0 | everyone | 390 | Sep 25 | 14:07 | U_s_006003_ReceiptM |
| -rw-r--r-- | 1 | 0 | everyone | 506 | Sep 25 | 14:07 | U_s_013006_Calib |

\h\MAIMG\integ\testsuite\TESTDATA\IMAGES

total 3382

| | | | | | | | |
|------------|---|---|----------|---------|--------|-------|------------------|
| -rw-r--r-- | 1 | 0 | everyone | 445579 | May 22 | 1998 | 5jan1200.xwd |
| -rw-r--r-- | 1 | 0 | everyone | 345770 | May 22 | 1998 | 5jan1200.xbm |
| -rw-r--r-- | 1 | 0 | everyone | 316274 | May 22 | 1998 | 5jan1200.tif |
| -rw-r--r-- | 1 | 0 | everyone | 1327161 | May 22 | 1998 | 5jan1200.pbm |
| -rw-r--r-- | 1 | 0 | everyone | 311787 | May 22 | 1998 | 5jan1200.nitf |
| -rw-r--r-- | 1 | 0 | everyone | 311787 | May 22 | 1998 | 5jan1200.mif |
| -rw-r--r-- | 1 | 0 | everyone | 311744 | May 22 | 1998 | 5jan1200.gif |
| -rw-r--r-- | 1 | 0 | everyone | 8310 | May 22 | 1998 | BlueMonday16.bmp |
| -rw-r--r-- | 1 | 0 | everyone | 1050283 | May 22 | 1998 | med2.xwd |
| -rw-r--r-- | 1 | 0 | everyone | 328106 | May 22 | 1998 | metosat_euro.gif |
| -rw-r--r-- | 1 | 0 | everyone | 53373 | May 22 | 1998 | n949wp-2.jpg |
| -rw-r--r-- | 1 | 0 | everyone | 1048971 | Dec 04 | 13:29 | med1.mif |
| -rw-r--r-- | 1 | 0 | everyone | 1048965 | Dec 04 | 13:29 | med2.mif |

\h\MAIMG\integ\testsuite\TESTDATA\GETTYPES

total 10

| | | | | | | | |
|------------|---|---|----------|----|--------|------|------------------------|
| -rw-r--r-- | 1 | 0 | everyone | 23 | Jun 24 | 1998 | T_s_029015 |
| -rw-r--r-- | 1 | 0 | everyone | 23 | Jun 24 | 1998 | T_s_025013 |
| -rw-r--r-- | 1 | 0 | everyone | 23 | Jun 24 | 1998 | T_s_027014 |
| -rw-r--r-- | 1 | 0 | everyone | 21 | Jun 24 | 1998 | T_s_009008 |
| -rw-r--r-- | 1 | 0 | everyone | 21 | Jun 25 | 1998 | T_s_000000_wildall |
| -rw-r--r-- | 1 | 0 | everyone | 21 | Jun 25 | 1998 | T_s_000000_subtypewild |
| -rw-r--r-- | 1 | 0 | everyone | 22 | Jul 02 | 1998 | T_p_002020 |
| -rw-r--r-- | 1 | 0 | everyone | 22 | Jul 02 | 1998 | T_p_002023 |
| -rw-r--r-- | 1 | 0 | everyone | 22 | Jul 02 | 1998 | T_s_014008 |

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| | | | | | | |
|--|---|---|----------|-----|--------------|------------------------|
| -rw-r--r-- | 1 | 0 | everyone | 23 | Jul 02 1998 | T_s_024011 |
| \h\MAIMG\integ\testsuite\TESTDATA\INGEST | | | | | | |
| total 94 | | | | | | |
| -rw-r--r-- | 1 | 0 | everyone | 365 | Sep 25 13:16 | s_010006 |
| -rw-r--r-- | 1 | 0 | everyone | 310 | Sep 25 13:24 | p_002016_NOFILE |
| -rw-r--r-- | 1 | 0 | everyone | 361 | Sep 25 13:35 | s_031014_NOFILE |
| -rw-r--r-- | 1 | 0 | everyone | 367 | Sep 25 13:35 | s_031015 |
| -rw-r--r-- | 1 | 0 | everyone | 370 | Sep 25 13:36 | s_031013 |
| -rw-r--r-- | 1 | 0 | everyone | 366 | Sep 25 13:36 | s_031012 |
| -rw-r--r-- | 1 | 0 | everyone | 367 | Sep 25 13:36 | s_031011 |
| -rw-r--r-- | 1 | 0 | everyone | 367 | Sep 25 13:36 | s_030015 |
| -rw-r--r-- | 1 | 0 | everyone | 361 | Sep 25 13:36 | s_030014_NOFILE |
| -rw-r--r-- | 1 | 0 | everyone | 370 | Sep 25 13:36 | s_030013 |
| -rw-r--r-- | 1 | 0 | everyone | 366 | Sep 25 13:36 | s_030012 |
| -rw-r--r-- | 1 | 0 | everyone | 366 | Sep 25 13:36 | s_029014 |
| -rw-r--r-- | 1 | 0 | everyone | 367 | Sep 25 13:36 | s_030011 |
| -rw-r--r-- | 1 | 0 | everyone | 366 | Sep 25 13:36 | s_029015 |
| -rw-r--r-- | 1 | 0 | everyone | 362 | Sep 25 13:36 | s_029012 |
| -rw-r--r-- | 1 | 0 | everyone | 362 | Sep 25 13:36 | s_029013 |
| -rw-r--r-- | 1 | 0 | everyone | 366 | Sep 25 13:36 | s_029011 |
| -rw-r--r-- | 1 | 0 | everyone | 363 | Sep 25 13:36 | s_028013_y2k |
| -rw-r--r-- | 1 | 0 | everyone | 357 | Sep 25 13:36 | s_028015_NOFILE |
| -rw-r--r-- | 1 | 0 | everyone | 363 | Sep 25 13:36 | s_028014_y2k |
| -rw-r--r-- | 1 | 0 | everyone | 362 | Sep 25 13:36 | s_028011 |
| -rw-r--r-- | 1 | 0 | everyone | 362 | Sep 25 13:36 | s_028012 |
| -rw-r--r-- | 1 | 0 | everyone | 363 | Sep 25 13:36 | s_027014 |
| -rw-r--r-- | 1 | 0 | everyone | 358 | Sep 25 13:36 | s_027015 |
| -rw-r--r-- | 1 | 0 | everyone | 342 | Sep 25 13:36 | s_027013_AOI |
| -rw-r--r-- | 1 | 0 | everyone | 356 | Sep 25 13:36 | s_026014_NOFILE |
| -rw-r--r-- | 1 | 0 | everyone | 366 | Sep 25 13:36 | s_027012 |
| -rw-r--r-- | 1 | 0 | everyone | 368 | Sep 25 13:36 | s_027011_283QualityInd |
| -rw-r--r-- | 1 | 0 | everyone | 362 | Sep 25 13:36 | s_026012_y2k |
| -rw-r--r-- | 1 | 0 | everyone | 366 | Sep 25 13:36 | s_026013 |
| -rw-r--r-- | 1 | 0 | everyone | 362 | Sep 25 13:36 | s_026011 |
| -rw-r--r-- | 1 | 0 | everyone | 362 | Sep 25 13:36 | s_025014 |
| -rw-r--r-- | 1 | 0 | everyone | 362 | Sep 25 13:36 | s_025013 |
| -rw-r--r-- | 1 | 0 | everyone | 362 | Sep 25 13:36 | s_025011 |
| -rw-r--r-- | 1 | 0 | everyone | 358 | Sep 25 13:36 | s_024014 |
| -rw-r--r-- | 1 | 0 | everyone | 358 | Sep 25 13:36 | s_025012 |
| -rw-r--r-- | 1 | 0 | everyone | 362 | Sep 25 13:36 | s_024012 |
| -rw-r--r-- | 1 | 0 | everyone | 357 | Sep 25 13:36 | s_024013 |
| -rw-r--r-- | 1 | 0 | everyone | 362 | Sep 25 13:36 | s_022010 |
| -rw-r--r-- | 1 | 0 | everyone | 362 | Sep 25 13:36 | s_024011 |
| -rw-r--r-- | 1 | 0 | everyone | 366 | Sep 25 13:36 | s_023010 |
| -rw-r--r-- | 1 | 0 | everyone | 358 | Sep 25 13:36 | s_020010_y2k |
| -rw-r--r-- | 1 | 0 | everyone | 357 | Sep 25 13:36 | s_019009 |
| -rw-r--r-- | 1 | 0 | everyone | 362 | Sep 25 13:36 | s_021010_y2k |
| -rw-r--r-- | 1 | 0 | everyone | 362 | Sep 25 13:36 | s_017009 |
| -rw-r--r-- | 1 | 0 | everyone | 361 | Sep 25 13:36 | s_018009 |
| -rw-r--r-- | 1 | 0 | everyone | 358 | Sep 25 13:36 | s_016009_NOFILE |
| -rw-r--r-- | 1 | 0 | everyone | 364 | Sep 25 13:36 | s_015009 |
| -rw-r--r-- | 1 | 0 | everyone | 363 | Sep 25 13:36 | s_014008_y2k |
| -rw-r--r-- | 1 | 0 | everyone | 363 | Sep 25 13:36 | s_014007 |
| -rw-r--r-- | 1 | 0 | everyone | 363 | Sep 25 13:36 | s_014006 |
| -rw-r--r-- | 1 | 0 | everyone | 367 | Sep 25 13:36 | s_014005 |
| -rw-r--r-- | 1 | 0 | everyone | 363 | Sep 25 13:36 | s_013008 |
| -rw-r--r-- | 1 | 0 | everyone | 359 | Sep 25 13:36 | s_013007 |
| -rw-r--r-- | 1 | 0 | everyone | 446 | Sep 25 13:36 | s_013005_10Calib |
| -rw-r--r-- | 1 | 0 | everyone | 367 | Sep 25 13:36 | s_013006 |
| -rw-r--r-- | 1 | 0 | everyone | 360 | Sep 25 13:36 | s_012008 |

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| | | | | | | |
|------------|---|---|----------|-----|--------------|---------------------|
| -rw-r--r-- | 1 | 0 | everyone | 364 | Sep 25 13:36 | s_012006 |
| -rw-r--r-- | 1 | 0 | everyone | 360 | Sep 25 13:36 | s_012007_y2k |
| -rw-r--r-- | 1 | 0 | everyone | 364 | Sep 25 13:36 | s_012005 |
| -rw-r--r-- | 1 | 0 | everyone | 364 | Sep 25 13:36 | s_011007 |
| -rw-r--r-- | 1 | 0 | everyone | 364 | Sep 25 13:36 | s_011008 |
| -rw-r--r-- | 1 | 0 | everyone | 365 | Sep 25 13:36 | s_011006_AOI |
| -rw-r--r-- | 1 | 0 | everyone | 365 | Sep 25 13:36 | s_010008 |
| -rw-r--r-- | 1 | 0 | everyone | 382 | Sep 25 13:36 | s_011005_equator |
| -rw-r--r-- | 1 | 0 | everyone | 365 | Sep 25 13:36 | s_010007 |
| -rw-r--r-- | 1 | 0 | everyone | 364 | Sep 25 13:36 | s_009008_IntDatLine |
| -rw-r--r-- | 1 | 0 | everyone | 360 | Sep 25 13:36 | s_010005_NOFILE |
| -rw-r--r-- | 1 | 0 | everyone | 368 | Sep 25 13:36 | s_009007_world |
| -rw-r--r-- | 1 | 0 | everyone | 363 | Sep 25 13:36 | s_009005 |
| -rw-r--r-- | 1 | 0 | everyone | 363 | Sep 25 13:36 | s_009006_y2k |
| -rw-r--r-- | 1 | 0 | everyone | 363 | Sep 25 13:36 | s_008004 |
| -rw-r--r-- | 1 | 0 | everyone | 363 | Sep 25 13:36 | s_007003 |
| -rw-r--r-- | 1 | 0 | everyone | 363 | Sep 25 13:36 | s_006003 |
| -rw-r--r-- | 1 | 0 | everyone | 367 | Sep 25 13:36 | s_005002 |
| -rw-r--r-- | 1 | 0 | everyone | 359 | Sep 25 13:36 | s_005001 |
| -rw-r--r-- | 1 | 0 | everyone | 363 | Sep 25 13:36 | s_004001 |
| -rw-r--r-- | 1 | 0 | everyone | 364 | Sep 25 13:36 | s_004002 |
| -rw-r--r-- | 1 | 0 | everyone | 363 | Sep 25 13:36 | s_003002 |
| -rw-r--r-- | 1 | 0 | everyone | 317 | Sep 25 13:36 | p_002023 |
| -rw-r--r-- | 1 | 0 | everyone | 359 | Sep 25 13:36 | s_003001 |
| -rw-r--r-- | 1 | 0 | everyone | 317 | Sep 25 13:36 | p_002022 |
| -rw-r--r-- | 1 | 0 | everyone | 318 | Sep 25 13:37 | p_002021 |
| -rw-r--r-- | 1 | 0 | everyone | 318 | Sep 25 13:37 | p_002020 |
| -rw-r--r-- | 1 | 0 | everyone | 318 | Sep 25 13:37 | p_002019 |
| -rw-r--r-- | 1 | 0 | everyone | 319 | Sep 25 13:37 | p_002018 |
| -rw-r--r-- | 1 | 0 | everyone | 316 | Sep 25 13:37 | p_002017 |
| -rw-r--r-- | 1 | 0 | everyone | 303 | Sep 25 13:38 | p_001000_NONE |
| -rw-r--r-- | 1 | 0 | everyone | 362 | Dec 21 15:47 | s_029013_y2k_leap |
| -rw-r--r-- | 1 | 0 | everyone | 363 | Dec 21 15:47 | s_006003_y2k_2036 |
| -rw-r--r-- | 1 | 0 | everyone | 318 | Dec 21 15:47 | p_002019_y2k_2036 |
| -rw-r--r-- | 1 | 0 | everyone | 317 | Dec 21 15:47 | p_002022_y2k_leap |
| -rw-r--r-- | 1 | 0 | everyone | 362 | Jan 07 09:43 | s_024011_chan0 |
| -rw-r--r-- | 1 | 0 | everyone | 364 | Jan 07 09:43 | s_012005_chan0 |

| | | | | | | |
|-------------------|---|---|----------|------|--------------|-------------------------|
| \h\MAIMG\man\man3 | | | | | | |
| total 23 | | | | | | |
| -rw-r--r-- | 1 | 0 | everyone | 2573 | Sep 30 11:15 | MAIMGUpdateByID.3 |
| -rw-r--r-- | 1 | 0 | everyone | 2062 | Sep 30 11:15 | MAIMGSetConnection.3 |
| -rw-r--r-- | 1 | 0 | everyone | 2049 | Sep 30 11:15 | MAIMGRemoteDisconnect.3 |
| -rw-r--r-- | 1 | 0 | everyone | 2623 | Sep 30 11:15 | MAIMGRemoteConnect.3 |
| -rw-r--r-- | 1 | 0 | everyone | 2195 | Sep 30 11:15 | MAIMGIgest.3 |
| -rw-r--r-- | 1 | 0 | everyone | 2928 | Sep 30 11:15 | MAIMGGetTypeInfo.3 |
| -rw-r--r-- | 1 | 0 | everyone | 2322 | Sep 30 11:15 | MAIMGGetByID.3 |
| -rw-r--r-- | 1 | 0 | everyone | 3304 | Sep 30 11:15 | MAIMGGetByQuery.3 |
| -rw-r--r-- | 1 | 0 | everyone | 1739 | Sep 30 11:15 | MAIMGDisconnect.3 |
| -rw-r--r-- | 1 | 0 | everyone | 1883 | Sep 30 11:15 | MAIMGFreeLL.3 |
| -rw-r--r-- | 1 | 0 | everyone | 2241 | Sep 30 11:15 | MAIMGDeleteByID.3 |
| -rw-r--r-- | 1 | 0 | everyone | 1762 | Sep 30 11:15 | MAIMGConnect.3 |
| -rw-r--r-- | 1 | 0 | everyone | 3226 | Sep 30 11:15 | MAIMGCatalog.3 |

Appendix B - Changes/Updates Since Preliminary Release

This release made the following changes:

| Pri | PTR # | Summary |
|-----|-------|---|
| 1 | 109 | Product Type MAIMG_OTHER does not appear to be properly represented in the MDIMG SubTypes table. |
| 1 | 110 | Incomplete satellite/sensor record information. Also there may be a mismatch on type and subtype combinations. |
| 1 | 111 | Catalog query fails to return correct information when minbasetime and maxbasetime is set. |
| 1 | 136 | While executing MAIMGtestGetByQuery_1.exe, get an application error. |
| 1 | 141 | After deleting an item, which you are not owner of, and the table still exists you can not ingest another record to that table. |
| 1 | 217 | Settings of BeginReceiptTime and EndReceiptTime in query structure do not correctly return expected images. |
| 2 | 92 | DII COE requires minimal permission settings for segment directories/files. |
| 2 | 105 | MAIMGGetByQuery call does not cleanup all dynamically allocated memory. |
| 2 | 107 | Query does not accept string fields that are not set. However documentation describes null settings for strings as being treated as wild cards. |
| 2 | 108 | Modify Delete so that a drop table failure does not cause a rollback and goes on to delete datadir record but still returns an error value. |
| 2 | 123 | MAIMG_krnl_CheckForSatellite does not check to see if a given Type/SubType combination exists. |
| 2 | 134 | Test cases do not work with new API's. |
| 2 | 139 | The .miff extension given to the images when they are retrieved are incorrect. It must be the following: .mif. |
| 2 | 147 | Catalog Basetime query still does not work properly. |
| 2 | 151 | Launch Date field is not filled in, after retrieving the dataset. |
| 2 | 241 | API routines missing exec sql connect to :szServerName_SQL as :szConnectionName_SQL with concurrent transaction. |

| Pri | PTR # | Summary |
|-----|-------|--|
| 2 | 300 | Problem with Cornerpoints in Query. |
| 3 | 106 | Evaluate each API call for any memory problems. |
| 3 | 113 | Create new API to return Type and SubType Data. |
| 3 | 117 | The .mif test case image was not valid and could not be co-located to a JMCIS chart. |
| 3 | 135 | Update TestDriver Menus to reflect new Types and SubTypes. |
| 3 | 138 | Imagery title and description field length should be able to handle lengths of 97 characters instead of 32. |
| 3 | 140 | Purge screen does not clear data previously entered from fields when reinitializing purge function. |
| 3 | 143 | Change ordering of product type defines so that other satellites can be added without having to go through code changes. |
| 3 | 144 | Add an OTHER type for Format types. |
| 3 | 145 | Add product Type for DMSP composite images. |
| 3 | 148 | Ensure the segment version number is listed as part of the title when using the Add/Run Programs Window. |
| 3 | 149 | Ensure the segment version number is listed as part of the title when using the Add/Run Programs Window |
| 3 | 162 | Reference ID structure not filled in properly. |
| 3 | 163 | Check for successful memory allocation. |
| 3 | 214 | Add AOI name field to MDIMG. |
| 3 | 261 | Complete and test Y2K processing in TEDS DB, API, and MDBMAN segments. |
| 4 | 213 | Inconsistent naming convention: ReceiptTime and lCreateTime. |
| 5 | 122 | Incorporate purge data functionality as the resource limit reaches a specified threshold. |
| 6 | 166 | Satellite product requires a channel ID. |

Appendix C - Known Problems and Errors

| Pri | PTR # | Summary |
|-----|-------|--|
| 2 | 258 | Add new API to Update Satellite tables and Product Type/Subtype tables. |
| 3 | 242 | Add ability to check DB and API compatibility at connect time. |
| 3 | 276 | Add functionality to count records by query. |
| 5 | 159 | Table gets locked on ingest and no other client can access until the table becomes unlocked. |

Detailed Program Trouble Reports (PTRs) are contained on the following pages.

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